

610 611 612 MAIN OP MULT NOP ADD MIN/MAX MIN/MAX ADD NOP MULT

FIG. 6B

Section 2				
		~l~lalalalalala	[40] 40] 47] 46] 46] 44] 42] 42] 41] 40] 0.]	17/2/2/2/2/2/2/2/2
		26 25 24 23 22 21 20		3 7 6 5 4 3 2 1 0
		V/954/DA Sub-op	1 Pred PL Sit Syt Rrd	2 2 2 0 24 DY SP4 0 0
	qs = +\-{zz,z\} + 29 qs = +\- zz,z\	Nop 0 0 0 Add 0 0 1	Ш	
A STATE OF THE STA	da = +/-{sx*sa} + sy	Add 0 1 0 Sub 0 1 1	u	
The true of the first of the fi	da = +/-(sx*sa) - sy da = nix(+/- sx*sy,sa)	Sub 1 0 0	u Gz	FIG. 6
44	da = min(+)- sx*sa,sy)	15n - 1 1 0	Gr Gr	, _ 0 ,
	de = sixx(+f- xx * 37, x2)	Max 111] [[]	

	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20		
į	1	0	0		S	S*									V/S				1		Add	da = +/-(mx*sa) + my
																		1	0	0	Sub	$da = +I-(mx^*sa) - my$
																		1	1	0	Min	da = min(+/-mx*sa, my)

FI 6.60

Control || Control Control # Control DSP, extensions/Shadow DSP # DSP

20-bit parallel 20-bit serial 40-bit extended 20-bit serial

39 19

20-bit 1SA

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FIG. 6 E

0 0p Pt 0p

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Shadow DSP

:

Type overide permits overide Offsel overide

0 SA DA x 0 1 0 SA DA PIY 1 0 0 SA DA PY 1 1

Permute:SY Offset:SY Type:SY

Type:SX Permute:SX Offsel;SX

0 Pred PL x 0 Pred PL Psx 0 Pred I/R I/R prx

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<Bit3, Bits13-10> == UIS ;POS

<8111, Bits9-8> ## (JIS (Shift Amount)

=1G, 6 F

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	Fill: Slgn/Zero	Bit 15 is conlinuation of Inner LC	andp, orp, andorp, orandp: pz = (px relop py) relop pv)				
10 9 8 7 8 Offset:UIS x RY	UI5: Posit	0 x Usis outer taite Usinner taite Usis outs Outs Usis inner taien 0 0 x Usis outer taite Usinner taite Usis outs Outs Usis inner taiten 1 0 x Usis outer taite Usis inner taiten 1 0 0 con ind ryni ek- ak-	0 0 0 x x 0 0 0 0 0	Imm16 Imm14 Imm14	0 Type	Imm16	lm16
4 3 2 19 18 17 0 0 0 0 × ×	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	- MON W	x x x)	0 0 11 0 0 %	1 1 4 H/L 0 × × 0
911 12 11 10 9 8 7 6 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Ult length RZ RX RZ RX RZ	UK: OVIET C VIK: Inner CC VIK: Inner CC VIK: NY RY	O O	= 101 = RZ	Type I KA RX RZ	RX RZ	RX RZ RX RZ
InserVExiracl	Shuft Shuft	jmp, call dkop dkopi	AN BURNET STATES TO AN	Testi Movi toadi	storel	storet Addvsubi	mini,maxi andi,ori

FIG. 6 G

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	39 36 37 36 35 34 33 32 31 30 29 20 22 22 22 22 22 22 22 22 22 22 22 22
	2.20 set PS Rnd S* DA V/S L1 S* S* S* S* MUL*10P 2.20 pet PS Rnd S* DA V/S L1 S* S* S* S* S* S* DA MUL*10P 2.20 pet PS Rnd S* DA V/S L1 S*
ARITH:	
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rodic:	0 Ext 1 Mac 1 20 20 27 20 20 27 20 20 27 20 20 20 20 20 20 20 20 20 20 20 20 20
3HFT: ·	39 38 37 38 33 32 31 30 29 26 22 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 19 9 8 7 6 5 4 3 2 1 0 5 1 0
immediate:	39 38 35 34 33 32 31 30 28 28 27 28 25 24 23 22 31 20 19 19 15 14 13 12 11 10 9 9 9 9 4 3 2 1 0 Group
Tent:	39 38 37 36 35 34 33 32 31 39 29 28 27 28 25 24 23 22 21 20 19 18 17 19 15 14 13 12 11 19 9 8 7 6 5 4 3 2 1 0
Brinch:	39[38 37[36]35[34]33[32[31]30[29 28[27]26[25[24]23[22[21]20 19]18[17]16[15[14]13[12[11]10[9[8[7]8]5[4]3 2]11]0

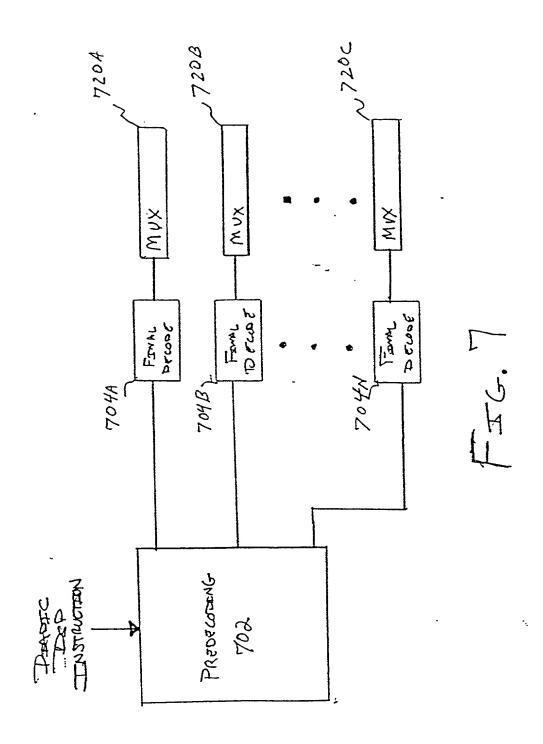
FIG. 6 H

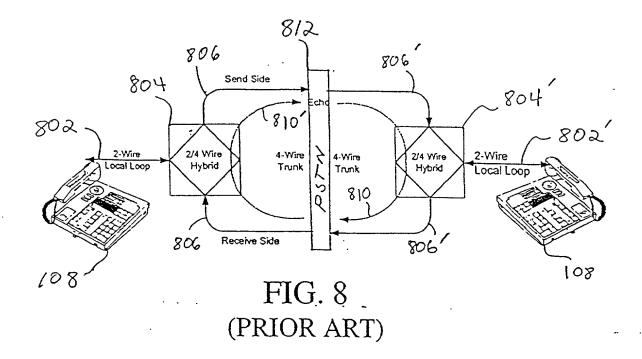
Misc:

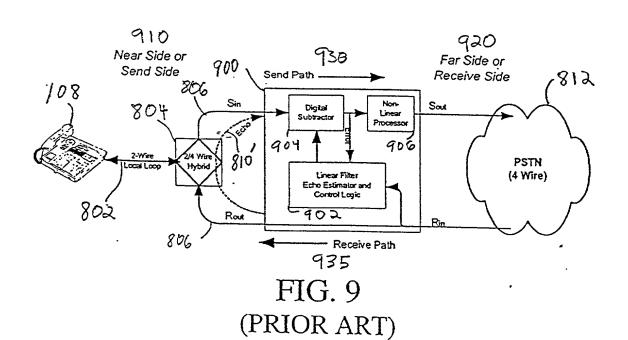
MAC:

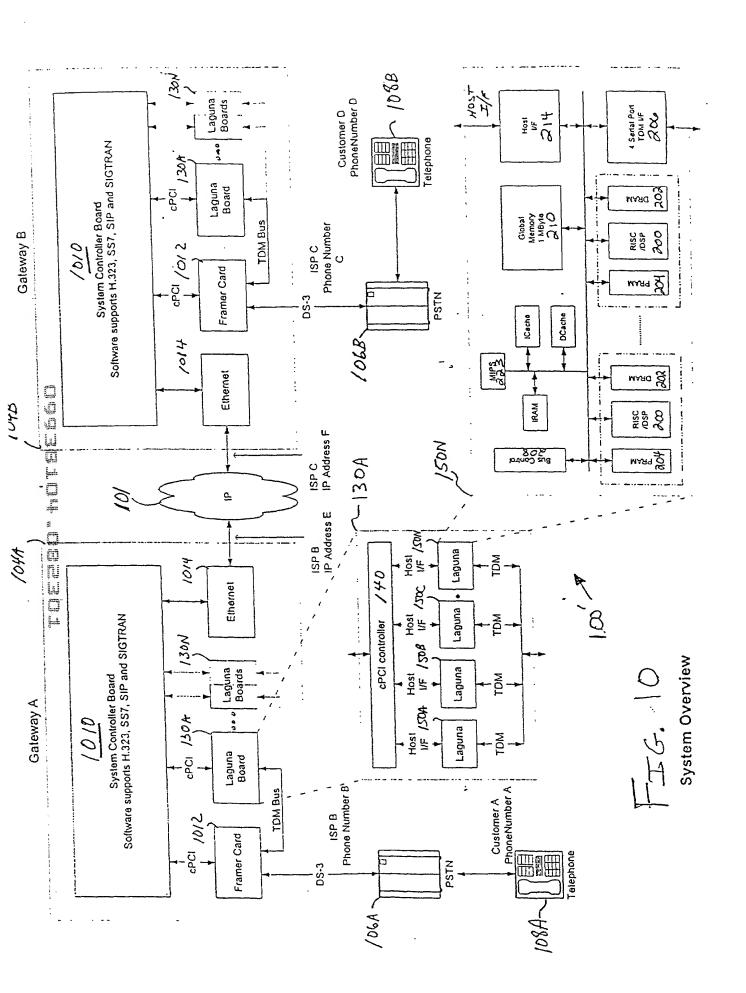
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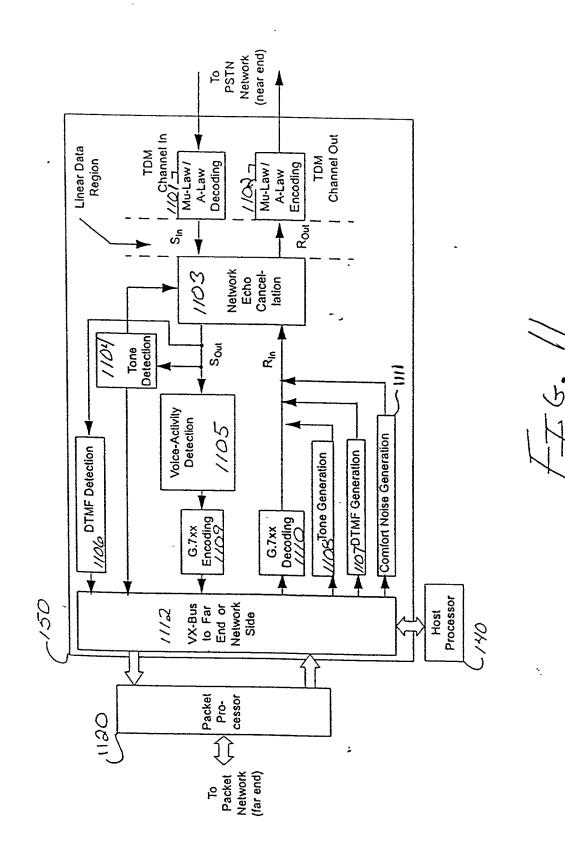
FIG. 6 H



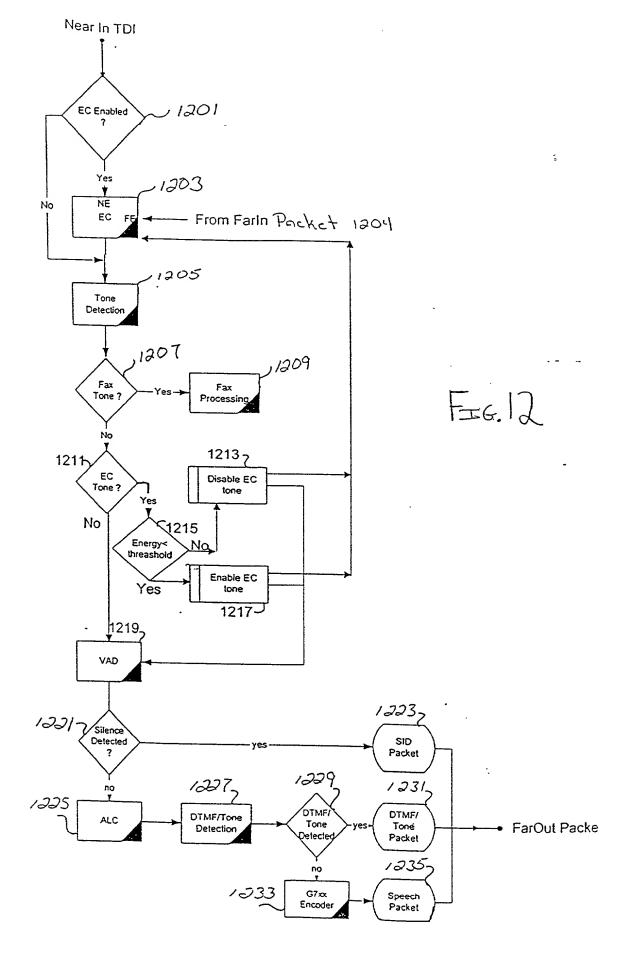


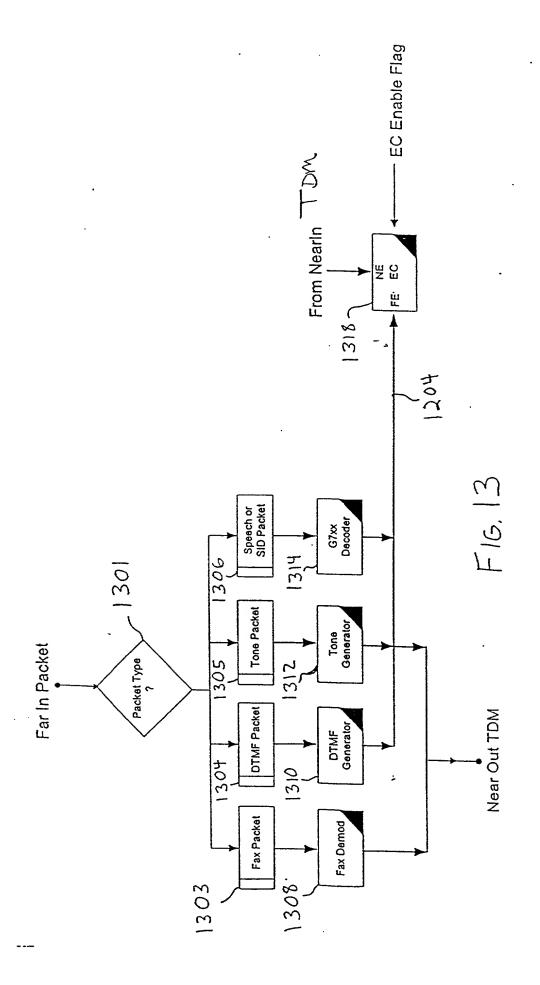


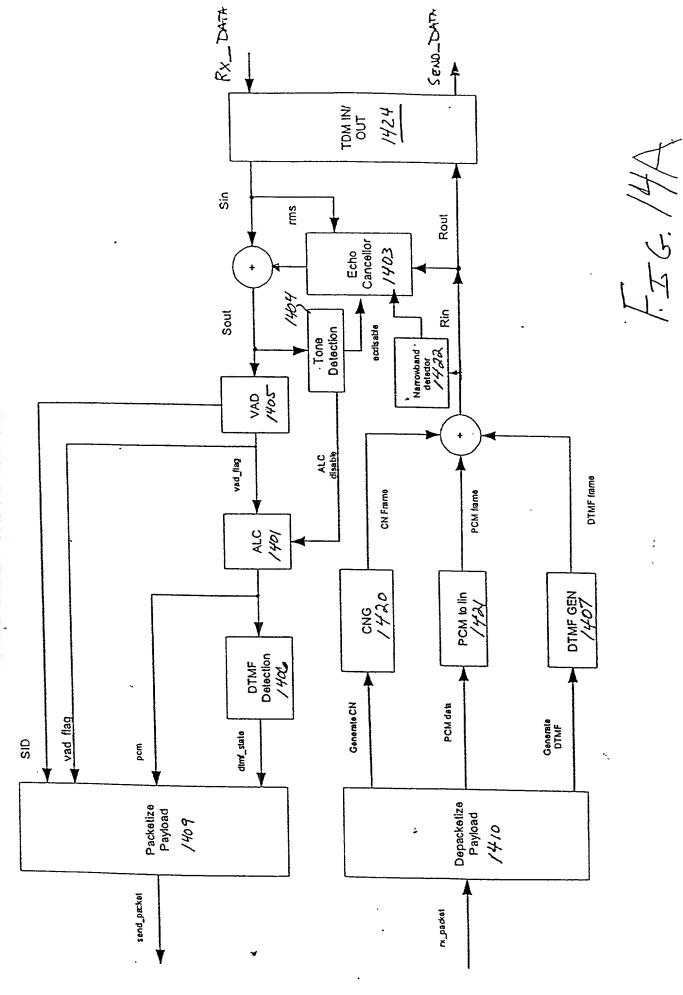




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VxTel Voice Activity Detection Algorithm

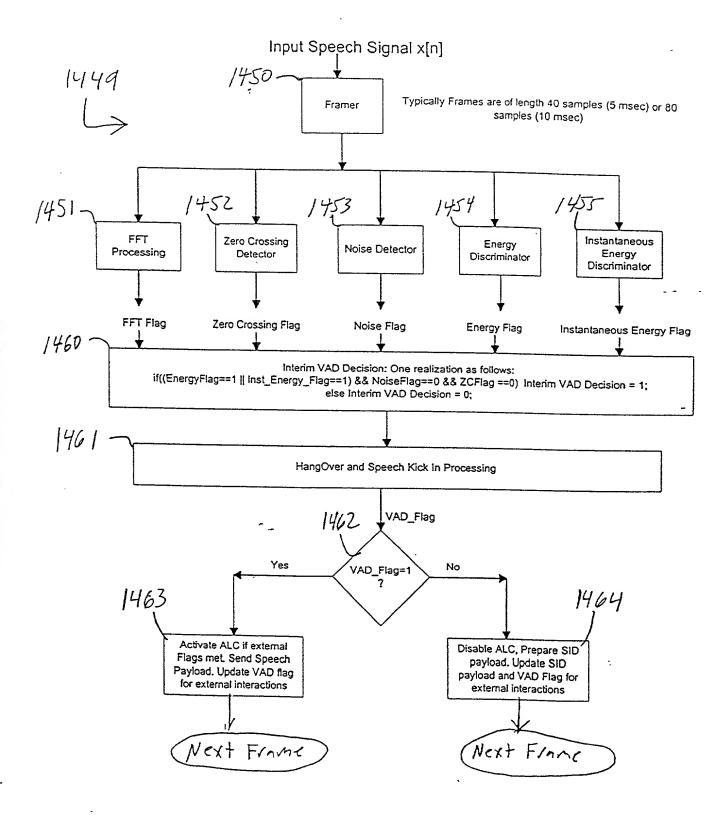
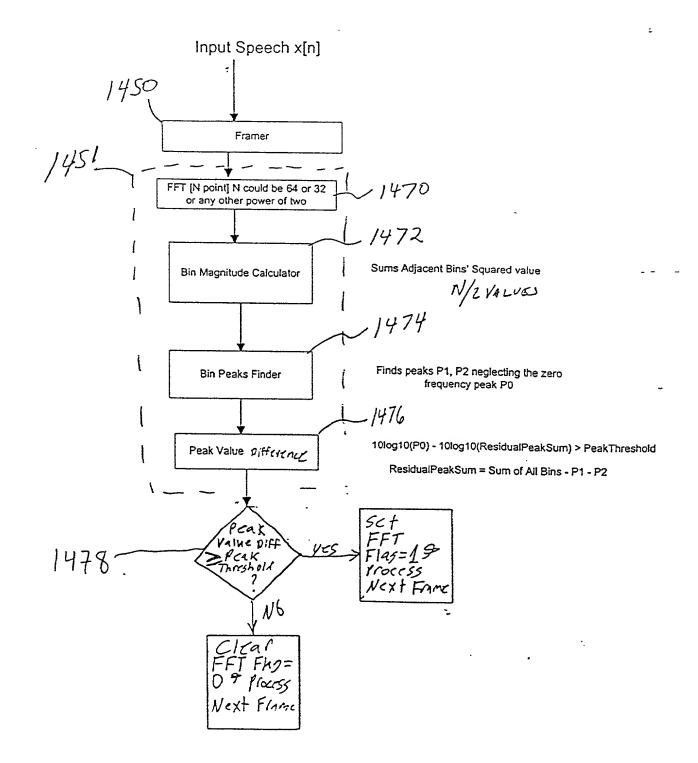


FIG. 143

FFT Processing of Input Speech for VAD



F56. 14C

Zero Crossing 1452

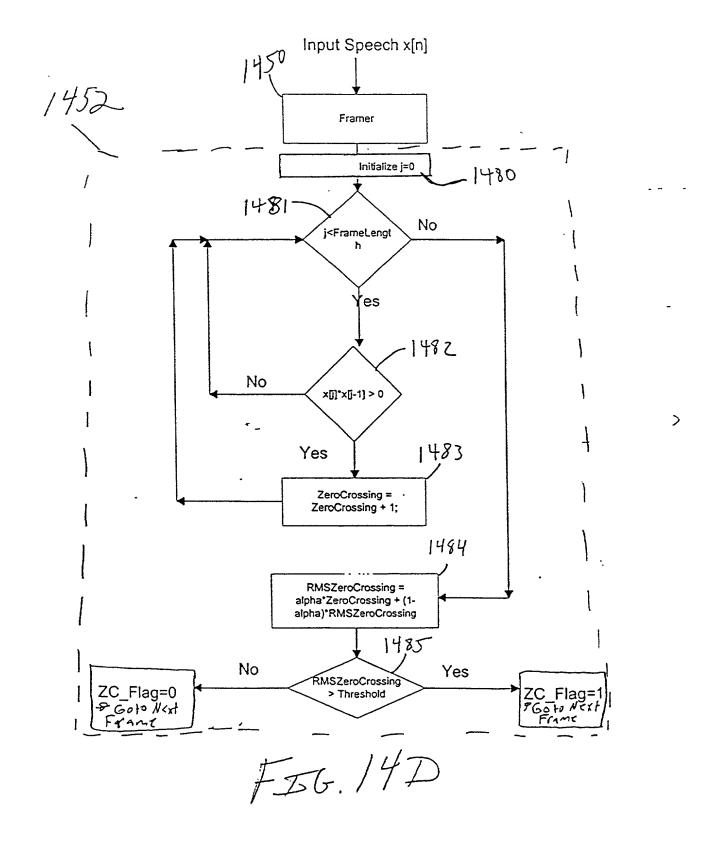
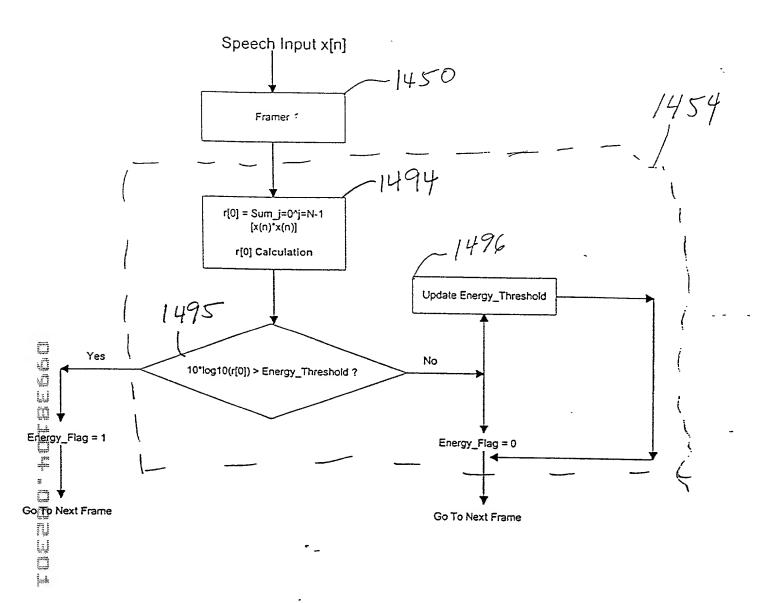


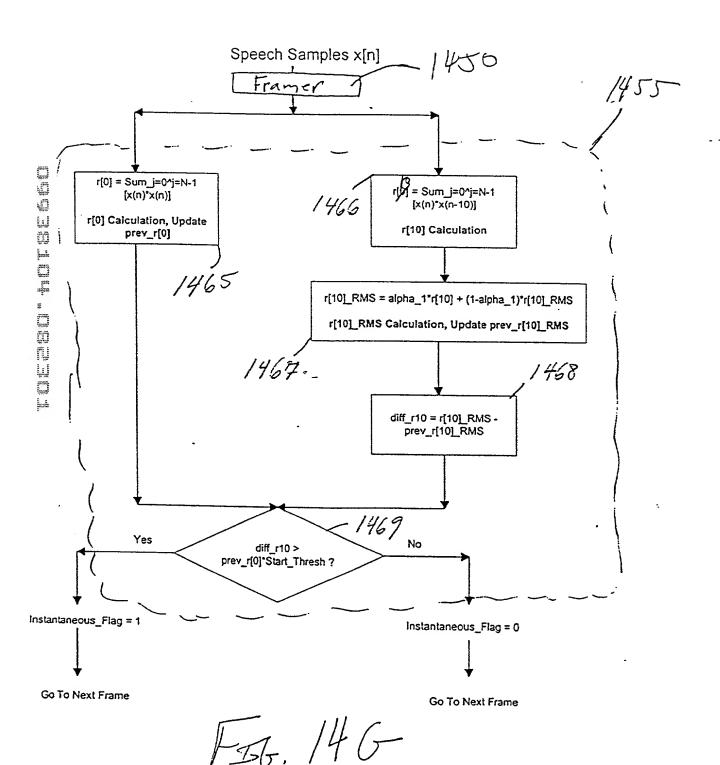
FIG. 14E

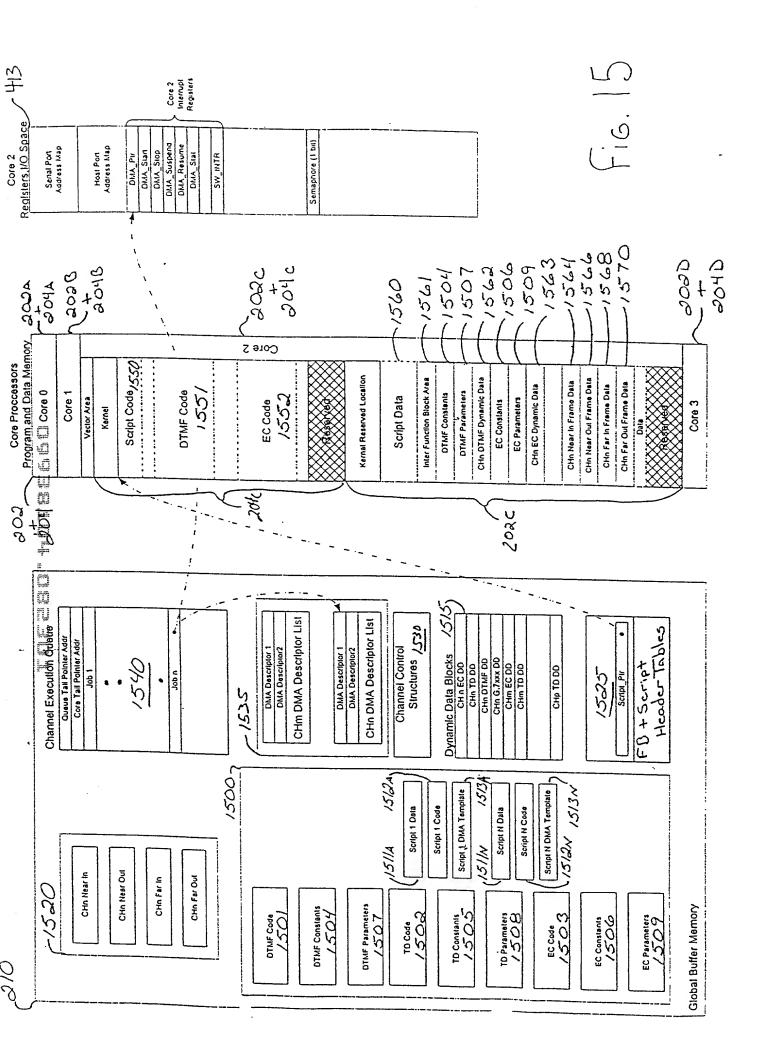
Energy Discriminator 454

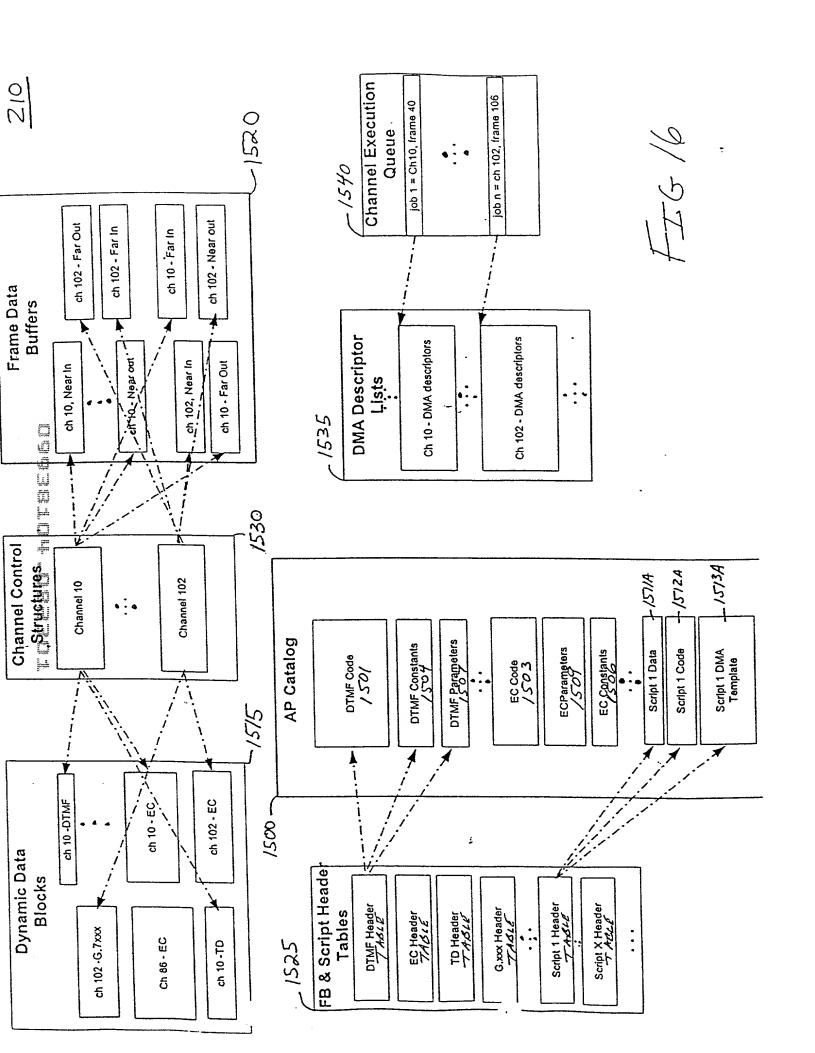


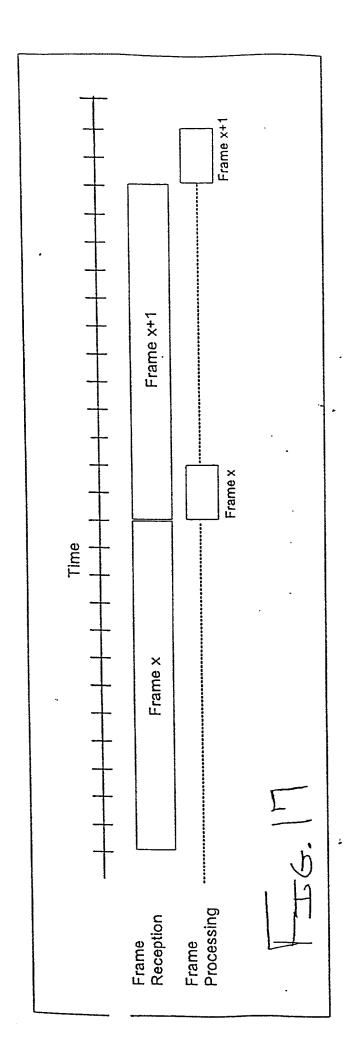
FSG. 14F

Instantaneous Energy 14-55 Discriminator









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